UNITED STATES PATENT AND TRADEMARK OFFICE

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EXAMINER
TSAI, CAROL S W

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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

PTOL-90A (Rev. 04/07)

	Application No.	Applicant(s)
Interview Summary	09/657,181	MOSKOWITZ ET AL.
	Examiner	**Art Unit**	
	Carol S. Tsai	2857	

All participants (applicant, applicant's representative, PTO personnel):

(1) *Carol S. Tsai*.   (3)_____.

(2) *Scott A. Moskowitz, applicant*.   (4)_____.

Date of Interview: *27 June 2007*.

Type: a)☒ Telephonic   b)☐ Video Conference
c)☐ Personal [copy given to: 1)☐ applicant   2)☐ applicant's representative]

Exhibit shown or demonstration conducted: d)☐ Yes   e)☐ No.
If Yes, brief description: _____.

Claim(s) discussed: *1-25*.

Identification of prior art discussed: _____.

Agreement with respect to the claims f)☐ was reached.   g)☒ was not reached.   h)☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: *See Continuation Sheet*.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER OF ONE MONTH OR THIRTY DAYS FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

CAROL S.W. TSAI
PRIMARY EXAMINER

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

_____
Examiner's signature, if required

Continuation of Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: After discussing with Mr. Moskowitz in the interview held on June 26, 2007, Mr. Moskowitz filed a proposed amendment to combine allowable subject into independent claims. The Examiner.agreed with allowable subject matter rewritten in independent claims 2, 3, 9, 11, 14, 16, and 25, but disagreed with allowable subject matter rewritten in independent claims 4, 7, 10, 17, and 20. Examiner suggested Mr. Moskowitz to rewrite independent claims 4, 7, 10, 17, and 20 in dependent form.

JUNE 26, 2007

ATTN: EXAMINER TSAI
FM: SCOTT MOSKOWITZ

"DRAFT" - Allowable
Claims Rewritten
for your
comments & review

Thank you

DRAFT DO NOT ENTER INTO FILE – FOR DISCUSSION PURPOSES ONLY
ALLOWABLE SUBJECT MATTER – CLAIMS 2-5, 7, 9-11, 14-17, 20 AND 25 REWRITTEN
IN INDEPENDENT FORM

1.

2. A method for monitoring and analyzing at least one signal comprising:

receiving at least one reference signal to be monitored;

creating an abstract of said at least one reference signal wherein the step of creating an abstract of said at least one reference signal comprises:

inputting the reference signal to a processor;

creating an abstract of the reference signal using perceptual qualities of the reference signal such that the abstract retains a perceptual relationship to the reference signal from which it is derived;

storing the abstract of said at least one reference signal in a reference database;

receiving at least one query signal to be analyzed;

creating an abstract of said at least one query signal wherein the step of creating an abstract of said at least one query signal comprises:

inputting the at least one query signal to the processor;

creating an abstract of the at least one query signal using perceptual qualities of the at least one query signal such that the abstract retains a perceptual relationship to the at least one query signal from which it is derived;

comparing the abstract of said at least one query signal to the abstract of said at least one reference signal to determine if the abstract of said at least one query signal matches the abstract of said at least one reference signal.

3.   A method for monitoring and analyzing at least one signal comprising:

receiving at least one reference signal to be monitored;

creating an abstract of said at least one reference signal;

storing the abstract of said at least one reference signal in a reference database;

receiving at least one query signal to be analyzed;

creating an abstract of said at least one query signal;

-comparing the abstract of said at least one query signal to the abstract of said at least one reference signal to determine if the abstract of said at least one query signal matches the abstract of said at least one reference signal[.];

creating at least one counter corresponding to one of said at least one reference signals, said at least one counter being representative of the number of times a match is found between the abstract of said at least one query signal and the abstract of said at least one reference signal; and

incrementing the counter corresponding to a particular reference signal when a match is found between an abstract of said at least one query signal and the abstract of the particular reference signal.

4.   A method for monitoring and analyzing at least one signal comprising:

receiving at least one reference signal to be monitored;

creating an abstract of said at least one reference signal;

storing the abstract of said at least one reference signal in a reference database;

receiving at least one query signal to be analyzed;

creating an abstract of said at least one query signal;

comparing the abstract of said at least one query signal to the abstract of said at least one reference signal to determine if the abstract of said at least one query signal matches the abstract of said at least one reference signal[.];

recording an occurrence of a match between the abstract of said at least one query signal and the abstract of said at least one reference signal; and

generating a report that identifies the reference signal whose abstract matched the abstract of said at least one query signal.

5.   The method of claim 4, further comprising:

recording an occurrence of a match between the abstract of said at least one query signal

and the abstract of said at least one reference signal.

6.

7. A method for monitoring and analyzing at least one signal comprising:

receiving at least one reference signal to be monitored;

creating an abstract of said at least one reference signal wherein the step of creating an abstract of said at least one reference signal comprises:

using a portion of said at least one reference signal to create an abstract of said at least one reference signal;

storing the abstract of said at least one reference signal in a reference database;

receiving at least one query signal to be analyzed;

creating an abstract of said at least one query signal wherein the step of creating an abstract of said at least one query signal comprises:

using a portion of said at least one query signal to create an abstract of said at least one query signal;

comparing the abstract of said at least one query signal to the abstract of said at least one reference signal to determine if the abstract of said at least one query signal matches the abstract of said at least one reference signal.

8.

9.   A method for monitoring a plurality of reference signals, comprising:

creating an abstract for each of the plurality of reference signals wherein the step of creating an abstract for each of a plurality of reference signals comprises:

inputting each of the plurality of reference signals to a processor;

creating an abstract of each one of the plurality of reference signals using perceptual qualities of each one of a plurality of reference signals such that the abstract

retains a perceptual relationship to the reference signal from which it is derived;

storing each of said abstracts in a reference database;

receiving at least one query signal to be analyzed;

creating an abstract of each of the at least one query signals wherein the step of creating an abstract of each of the at least one query signals comprises:

inputting each of the at least one query signals to a processor;

creating an abstract of each one of a plurality of reference signals using perceptual qualities of each one of a plurality of reference signals such that the abstract retains a perceptual relationship to the reference signal from which it is derived;

locating an abstract in the reference database that matches the abstract of each at least one query signal; and

recording the identify of the reference signal whose abstract matched the abstract of each at least one query signal.

10.   A method for monitoring a plurality of reference signals, comprising:

creating an abstract for each of the plurality of reference signals wherein the step of creating an abstract of said at least one reference signal comprises:

using a portion of said at least one reference signal to create an abstract of said at least one reference signal;

storing each of said abstracts in a reference database;

receiving at least one query signal to be analyzed;

creating an abstract of each of the at least one query signals wherein the step of creating an abstract of said at least one query signal comprises:

using a portion of said at least one query signal to create an abstract of said at least one query signal;

locating an abstract in the reference database that matches the abstract of each at least one query signal; and

recording the identify of the reference signal whose abstract matched the abstract of each

at least one query signal.

11.   A method for monitoring a plurality of reference signals, comprising:

creating an abstract for each of the plurality of reference signals;

storing each of said abstracts in a reference database;

receiving at least one query signal to be analyzed;

creating an abstract of each of the at least one query signals;

locating an abstract in the reference database that matches the abstract of each at least one

query signal; and

recording the identify of the reference signal whose abstract matched the abstract of each

at least one query signal[.];

creating at least one counter corresponding to one of said plurality of reference signals,

said at least one counter being representative of the number of times a match is found between the

abstract of said at least one query signal and an abstract of one of said plurality of reference

signals; and

incrementing the counter corresponding to a particular reference signal when a match is

found between an abstract of said at least one query signal and the abstract of the particular

reference signal.

12.

13.

14.   A computerized system for monitoring and analyzing at least one signal:

a processor that creates an abstract of a signal using selectable criteria;

a first input that receives at least one reference signal to be monitored, said first input

being coupled to said processor such that said processor may generate an abstract for each

reference signal input to said processor;

a reference database, coupled to said processor, that stores abstracts of each at least one reference signal;

a second input that receives at least one query signal to be analyzed, said second input being coupled to said processor such that said processor may generate an abstract for each query signal;

a comparing device, coupled to said reference database and to said second input, that compares an abstract of said at least one query signal to the abstracts stored in the reference database to determine if the abstract of said at least one query signal matches any of the stored abstracts[.];

a storage medium coupled to said first input, that stores each of said at least one reference signals to be monitored; and

a controller coupled to the first input, the processor, the comparing device, the reference database and the storage medium, said controller causing an abstract for each reference signal being input for the first time to be compared to all previously stored abstracts in the reference database, such that in the event that the comparing device determines that it cannot distinguish between the abstract of a reference signal being input for the first time from a previously stored abstract in the reference database, the controller adjusts the criteria being used by the processor and re-generates the reference database, by re-processing each reference signal stored on the storage medium to create new abstracts and storing said new abstracts in the reference database.

15.   The system of claim 14, wherein the controller includes a means to adjust compression rates at which the processor processes a signal to create an abstract.

16.   A computerized system for monitoring and analyzing at least one signal:

a processor that creates an abstract of a signal using selectable criteria;

a first input that receives at least one reference signal to be monitored, said first input being coupled to said processor such that said processor may generate an abstract for each reference signal input to said processor;

a reference database, coupled to said processor, that stores abstracts of each at least one

reference signal;

a second input that receives at least one query signal to be analyzed, said second input

being coupled to said processor such that said processor may generate an abstract for each query

signal;

a comparing device, coupled to said reference database and to said second input, that

compares an abstract of said at least one query signal to the abstracts stored in the reference

database to determine if the abstract of said at least one query signal matches any of the stored

abstracts wherein the comparing device identifies at least two abstracts in the reference database

that match the abstract of said at least one query signal and an index of relatedness to said at least

one query signal for each of said at least two matching abstracts.

17.   A computerized system for monitoring and analyzing at least one signal:

a processor that creates an abstract of a signal using selectable criteria;

a first input that receives at least one reference signal to be monitored, said first input

being coupled to said processor such that said processor may generate an abstract for each

reference signal input to said processor;

a reference database, coupled to said processor, that stores abstracts of each at least one

reference signal; .

a second input that receives at least one query signal to be analyzed, said second input

being coupled to said processor such that said processor may generate an abstract for each query

signal;

a comparing device, coupled to said reference database and to said second input, that

compares an abstract of said at least one query signal to the abstracts stored in the reference

database to determine if the abstract of said at least one query signal matches any of the stored

abstracts[.];

a security controller that controls access to a secured area, such that access is granted only

if the comparing device confirms that an abstract of said at least one query signal matches an

abstract of said at least one reference signal.

18.

19.

20.   A computerized system for monitoring and analyzing at least one signal:

a processor that creates an abstract of a signal using selectable criteria;

a first input that receives at least one reference signal to be monitored, said first input

being coupled to said processor such that said processor may generate an abstract for each

reference signal input to said processor;

a reference database, coupled to said processor, that stores abstracts of each at least one

reference signal;

a second input that receives at least one query signal to be analyzed, said second input

being coupled to said processor such that said processor may generate an abstract for each query

signal;

a comparing device, coupled to said reference database and to said second input, that

compares an abstract of said at least one query signal to the abstracts stored in the reference

database to determine if the abstract of said at least one query signal matches any of the stored

abstracts[.];

a recorder that records the identify of the reference signal whose abstract matched the

abstract of said at least one query signal; and

a report generator that generates a report that identifies the reference signals whose

abstracts matched the abstract of said at least one query signal.

21.

22.

23.

24.

25.   A electronic system for monitoring and analyzing at least one signal, comprising:

a first input that receives at least one reference signal to be monitored,

a first processor that creates an abstract of each reference signal input to said first

processor through said first input;

a second input that receives at least one query signal to be analyzed,

a second processor that creates an abstract of each query signal;

a reference database that stores abstracts of each at least one reference signal;

a comparing device that compares an abstract of said at least one query signal to the abstracts stored in the reference database to determine if the abstract of said at least one query signal matches any of the stored abstracts[.];

a storage medium coupled to said first input, that stores each of said at least one reference signals to be monitored; and

a controller that compares an abstract for each reference signal being input for the first time to be compared to all previously stored abstracts in the reference database, such that in the event that the comparing device determines that it cannot distinguish between the abstract of a reference signal being input for the first time from a previously stored abstract in the reference database, the controller adjusts the criteria being used by the processor and re-generates the reference database, by re-processing each reference signal stored on the storage medium to create new abstracts and storing said new abstracts in the reference database.

Attn: Examiner Tsai

As per instructions ... for comment and review

DRAFT DO NOT ENTER INTO FILE – FOR DISCUSSION PURPOSES ONLY
ALLOWABLE SUBJECT MATTER – CLAIMS 2-5, 7, 9-11, 14-17, 20 AND 25 REWRITTEN
IN INDEPENDENT FORM WITH CLAIM STATUS IDENTIFIERS

Thank you
Scott Moskowitz

1. (canceled)   A method for monitoring and analyzing at least one signal comprising:

　　　　receiving at least one reference signal to be monitored;

　　　　creating an abstract of said at least one reference signal;

　　　　storing the abstract of said at least one reference signal in a reference database;

　　　　receiving at least one query signal to be analyzed;

　　　　creating an abstract of said at least one query signal;

　　　　comparing the abstract of said at least one query signal to the abstract of said at least one

reference signal to determine if the abstract of said at least one query signal matches the abstract

of said at least one reference signal.

2. (currently amended) [The method of claim 1 wherein] A method for monitoring and analyzing

at least one signal comprising:

　　　　receiving at least one reference signal to be monitored;

　　　　creating an abstract of said at least one reference signal wherein the step of creating an

abstract of said at least one reference signal comprises:

　　　　　　　　inputting the reference signal to a processor;

　　　　　　　　creating an abstract of the reference signal using perceptual qualities of the

　　　　　　　　reference signal such that the abstract retains a perceptual relationship to the reference

　　　　　　　　signal from which it is derived;

　　　　storing the abstract of said at least one reference signal in a reference database;

receiving at least one query signal to be analyzed;

　　　　creating an abstract of said at least one query signal wherein the step of creating an

abstract of said at least one query signal comprises:

　　　　　　　　inputting the at least one query signal to the processor;

　　　　　　　　creating an abstract of the at least one query signal using perceptual qualities of

　　　　the at least one query signal such that the abstract retains a perceptual relationship to the

　　　　at least one query signal from which it is derived[.]; and

　　　　comparing the abstract of said at least one query signal to the abstract of said at least one

reference signal to determine if the abstract of said at least one query signal matches the abstract

of said at least one reference signal.

3. (currently amended) [The method of claim 1 further comprising:] A method for monitoring
and analyzing at least one signal comprising:

      receiving at least one reference signal to be monitored;

      creating an abstract of said at least one reference signal;

      storing the abstract of said at least one reference signal in a reference database;

      receiving at least one query signal to be analyzed;

      creating an abstract of said at least one query signal; [and]

      comparing the abstract of said at least one query signal to the abstract of said at least one
reference signal to determine if the abstract of said at least one query signal matches the abstract
of said at least one reference signal[.];

      creating at least one counter corresponding to one of said at least one reference signals,
said at least one counter being representative of the number of times a match is found between
the abstract of said at least one query signal and the abstract of said at least one reference signal;
and

      incrementing the counter corresponding to a particular reference signal when a match is
found between an abstract of said at least one query signal and the abstract of the particular
reference signal.

4. (currently amended) The method of claim [1] 3 further comprising:

      recording an occurrence of a match between the abstract of said at least one query signal
and the abstract of said at least one reference signal; and

      generating a report that identifies the reference signal whose abstract matched the abstract
of said at least one query signal.

5. (original) The method of claim 4, further comprising:

      recording an occurrence of a match between the abstract of said at least one query signal
and the abstract of said at least one reference signal.

6. (canceled) The method of claim 1, further comprising permitting access to a secured area

when the abstract of said at least one query signal matches the abstract of said at least one reference signal.

7. (currently amended) The method of claim [1] 2, wherein the step of creating an abstract of said at least one reference signal comprises:

using a portion of said at least one reference signal to create an abstract of said at least one reference signal; and

the step of creating an abstract of said at least one query signal comprises:

using a portion of said at least one query signal to create an abstract of said at least one query signal.

8. (canceled) A method for monitoring a plurality of reference signals, comprising:

creating an abstract for each of the plurality of reference signals;

storing each of said abstracts in a reference database;

receiving at least one query signal to be analyzed;

creating an abstract of each of the at least one query signals;

locating an abstract in the reference database that matches the abstract of each at least one query signal; and

recording the identify of the reference signal whose abstract matched the abstract of each at least one query signal.

9. (currently amended) [The method of claim 8,] A method for monitoring a plurality of reference signals, comprising:

creating an abstract for each of the plurality of reference signals wherein the step of creating an abstract for each of a plurality of reference signals comprises:

inputting each of the plurality of reference signals to a processor;

creating an abstract of each one of the plurality of reference signals using perceptual qualities of each one of a plurality of reference signals such that the abstract

retains a perceptual relationship to the reference signal from which it is derived [and];

storing each of said abstracts in a reference database;

receiving at least one query signal to be analyzed;

creating an abstract of each of the at least one query signals wherein the step of creating an abstract of each of the at least one query signals comprises:

inputting each of the at least one query signals to a processor;

creating an abstract of each one of a plurality of reference signals using perceptual qualities of each one of a plurality of reference signals such that the abstract retains a perceptual relationship to the reference signal from which it is derived;

locating an abstract in the reference database that matches the abstract of each at least one query signal; and

recording the identify of the reference signal whose abstract matched the abstract of each at least one query signal.

10. (currently amended) The method of claim [8] 9, wherein

the step of creating an abstract of said at least one reference signal comprises:

using a portion of said at least one reference signal to create an abstract of said at least one reference signal;

and the step of creating an abstract of said at least one query signal comprises:

using a portion of said at least one query signal to create an abstract of said at least one query signal.

11. (currently amended) [The method of claim 8, further comprising:] A method for monitoring a plurality of reference signals, comprising:

creating an abstract for each of the plurality of reference signals;

storing each of said abstracts in a reference database;

receiving at least one query signal to be analyzed;

creating an abstract of each of the at least one query signals;

locating an abstract in the reference database that matches the abstract of each at least one query signal; [and]

recording the identify of the reference signal whose abstract matched the abstract of each at least one query signal[.];

creating at least one counter corresponding to one of said plurality of reference signals, said at least one counter being representative of the number of times a match is found between the abstract of said at least one query signal and an abstract of one of said plurality of reference signals; and

incrementing the counter corresponding to a particular reference signal when a match is found between an abstract of said at least one query signal and the abstract of the particular reference signal.

12. (canceled) The method of claim 8, further comprising permitting access to a secured area when the abstract of said at least one query signal matches an abstract of one of said plurality of reference signals.

13. (canceled) A computerized system for monitoring and analyzing at least one signal:

a processor that creates an abstract of a signal using selectable criteria;

a first input that receives at least one reference signal to be monitored, said first input being coupled to said processor such that said processor may generate an abstract for each reference signal input to said processor;

a reference database, coupled to said processor, that stores abstracts of each at least one reference signal;

a second input that receives at least one query signal to be analyzed, said second input being coupled to said processor such that said processor may generate an abstract for each query signal;

a comparing device, coupled to said reference database and to said second input, that compares an abstract of said at least one query signal to the abstracts stored in the reference

database to determine if the abstract of said at least one query signal matches any of the stored abstracts.

14. (currently amended) [The system of claim 13, further comprising:] <u>A computerized system for monitoring and analyzing at least one signal:</u>

 <u>a processor that creates an abstract of a signal using selectable criteria:</u>

 <u>a first input that receives at least one reference signal to be monitored, said first input being coupled to said processor such that said processor may generate an abstract for each reference signal input to said processor:</u>

 <u>a reference database, coupled to said processor, that stores abstracts of each at least one reference signal:</u>

 <u>a second input that receives at least one query signal to be analyzed, said second input being coupled to said processor such that said processor may generate an abstract for each query signal:</u>

 <u>a comparing device, coupled to said reference database and to said second input, that compares an abstract of said at least one query signal to the abstracts stored in the reference database to determine if the abstract of said at least one query signal matches any of the stored abstracts[.]:</u>

 a storage medium coupled to said first input, that stores each of said at least one reference signals to be monitored; and

 a controller coupled to the first input, the processor, the comparing device, the reference database and the storage medium, said controller causing an abstract for each reference signal being input for the first time to be compared to all previously stored abstracts in the reference database, such that in the event that the comparing device determines that it cannot distinguish between the abstract of a reference signal being input for the first time from a previously stored abstract in the reference database, the controller adjusts the criteria being used by the processor and re-generates the reference database, by re-processing each reference signal stored on the storage medium to create new abstracts and storing said new abstracts in the reference database.

15. (original) The system of claim 14, wherein the controller includes a means to adjust compression rates at which the processor processes a signal to create an abstract.

16. (currently amended) [The system of claim 13] A computerized system for monitoring and analyzing at least one signal:

a processor that creates an abstract of a signal using selectable criteria;

a first input that receives at least one reference signal to be monitored, said first input being coupled to said processor such that said processor may generate an abstract for each reference signal input to said processor;

a reference database, coupled to said processor, that stores abstracts of each at least one reference signal;

a second input that receives at least one query signal to be analyzed, said second input being coupled to said processor such that said processor may generate an abstract for each query signal;

a comparing device, coupled to said reference database and to said second input, that compares an abstract of said at least one query signal to the abstracts stored in the reference database to determine if the abstract of said at least one query signal matches any of the stored abstracts[.], wherein the comparing device identifies at least two abstracts in the reference database that match the abstract of said at least one query signal and an index of relatedness to said at least one query signal for each of said at least two matching abstracts.

17. (currently amended) The system of claim [13] 16, further comprising:

a security controller that controls access to a secured area, such that access is granted only if the comparing device confirms that an abstract of said at least one query signal matches an abstract of said at least one reference signal.

18. (canceled) The system of claim 13, wherein said first input and said second input are the

same.

19. (canceled) The system of claim 13, wherein said second input is remotely coupled to the processor.

20. (currently amended) The system of claim [13] 16, further comprising:

a recorder that records the identify of the reference signal whose abstract matched the abstract of said at least one query signal; and

a report generator that generates a report that identifies the reference signals whose abstracts matched the abstract of said at least one query signal.

21. (canceled) A electronic system for monitoring and analyzing at least one signal, comprising:

a first input that receives at least one reference signal to be monitored,

a first processor that creates an abstract of each reference signal input to said first processor through said first input;

a second input that receives at least one query signal to be analyzed,

a second processor that creates an abstract of each query signal;

a reference database that stores abstracts of each at least one reference signal;

a comparing device that compares an abstract of said at least one query signal to the abstracts stored in the reference database to determine if the abstract of said at least one query signal matches any of the stored abstracts.

22. (canceled) The system of claim 21, wherein said second input is remotely coupled to the system.

23. (canceled) The system of claim 21, wherein said second processor is remotely coupled to the system.

24. (canceled) The system of claim 21, wherein the system transmits the criteria that are being used by the first processor to the second processor.

25. (currently amended) [The system of claim 21, further comprising:] A electronic system for monitoring and analyzing at least one signal, comprising:

a first input that receives at least one reference signal to be monitored,

a first processor that creates an abstract of each reference signal input to said first processor through said first input;

a second input that receives at least one query signal to be analyzed,

a second processor that creates an abstract of each query signal;

a reference database that stores abstracts of each at least one reference signal;

a comparing device that compares an abstract of said at least one query signal to the abstracts stored in the reference database to determine if the abstract of said at least one query signal matches any of the stored abstracts[.];

a storage medium coupled to said first input, that stores each of said at least one reference signals to be monitored; and

a controller that compares an abstract for each reference signal being input for the first time to be compared to all previously stored abstracts in the reference database, such that in the event that the comparing device determines that it cannot distinguish between the abstract of a reference signal being input for the first time from a previously stored abstract in the reference database, the controller adjusts the criteria being used by the processor and re-generates the reference database, by re-processing each reference signal stored on the storage medium to create new abstracts and storing said new abstracts in the reference database.